

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Cancelled).

2. (Currently Amended) An HID ballast powered by a power source, to control operation of a load, the HID ballast comprising:

a switching section connected to a first bus and a second bus, and configured to output a high frequency voltage signal; and

a bridge converter section having a first leg including first and second series connected bridge diodes, and a second leg including third and fourth series connected bridge diodes, each leg connected to the first bus and the second bus, and configured to receive an input signal from the power source and to convert the input signal into a form usable by the switching section, the bridge converter section integrated with the switching section via a first feedback loop including a first feedback capacitor and a second feedback loop including a second feedback capacitor, to provide the usable signal to the switching section and to contribute to operation of the switching section, wherein the HID ballast is a single stage device; and

~~a high frequency level shifting circuit incorporated to receive the high frequency voltage signal and supply a boosted high frequency voltage signal to the load.~~

3. (Canceled)

4. (Previously Presented) An HID ballast, powered by a power source, to control operation of a load, the HID ballast comprising:

a switching section connected to a first bus and a second bus, and configured to output a high frequency voltage signal;

a bridge converter section having a first leg including first and second connected bridge diodes, and a second leg including third and fourth series connected bridge diodes, each leg connected to the first bus and the second bus, and configured to receive an input signal from the power source and to convert the input signal into a form usable by the switching section, the bridge converter section integrated with the switching section, to provide the usable signal to the switching section and to contribute to operation of the

switching section, wherein the HID ballast is a single stage device; and,
a canceling device incorporated to selectively cancel a boosted high frequency voltage signal.

5. (Original) The HID ballast according to claim 4 wherein the canceling device is designed to be operational following transition from the startup operation.

6. (Previously Presented) The HID ballast according to claim 2 further including a canceling device incorporated to selectively cancel the boosted high frequency voltage signal.

7. (Original) The HID ballast according to claim 6 wherein the canceling device is designed to be operational following transition from the startup operation.

8. (Previously Presented) The HID ballast according to claim 2 wherein the boosted high frequency voltage signal is approximately 3kv or greater.

9. (Currently Amended) An HID ballast powered by a power source, to control operation of a load, the HID ballast comprising:

a switching section connected to a first bus and a second bus, and configured to output a high frequency voltage signal;
a bridge converter section having a first leg including first and second series connected bridge diodes, and a second leg including third and fourth series connected bridge diodes, each leg connected to the first bus and the second bus, and configured to receive an input signal from the power source and to convert the input signal into a form usable by the switching section, the bridge converter section integrated with the switching section via a first feedback loop including a first feedback capacitor and a second feedback loop including a second feedback capacitor, to provide the usable signal to the switching section and to contribute to operation of the switching section, wherein the HID ballast is a single stage device; and,
protection circuitry, wherein the protection circuitry detects at least one of over voltage or over current conditions.

10. (Previously Presented) The HID ballast according to claim 2 wherein the switching section is a two-switch inverter.

11. (Previously Presented) The HID ballast according to claim 2 wherein the load is an HID lamp.

12. (Canceled)

13. (Previously Presented) The HID ballast according to claim 4 further including protection circuitry, wherein the protection circuitry detects at least one of over voltage or over current conditions.

14. (Previously Presented) The HID ballast according to claim 4 wherein the switching network is a two-switch inverter.

15. (Previously Presented) The HID ballast according to claim 4 wherein the load is an HID lamp.

16. (New) The HID ballast according to claim 4 wherein the boosted high frequency voltage signal is generated by a high frequency level shifting circuit.

17. (New) The HID ballast according to claim 4 wherein the canceling device is a canceling capacitor.

18. (New) The HID ballast according to claim 2 wherein the second feedback loop is within the current path of the lamp.

19. (New) The HID ballast according to claim 18 further including an active switching device which controls an amount of current feedback to the bridge converter section via the second feedback loop.